EAGLE EYE

Smallest Full Feature Pocket DVR
With high resolution in the world

USER MANUAL

DV207
Pocket
Camera Recorder

Please read this user manual carefully and thoroughly before any attemptto Install and operate this product and retain it for your future reference.

CATALOG

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INTRODUCTION

Thank you for purchasing DV207 which has the unique, ultra-small and delicate design. It can be used in many recording situations. DV207 rings more convenience, safety and funs to your daily life.

Approval Information:

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC:

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

CE:

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.

OVERVIEW

Along with the improvement of people's living standard and the development of picture compression and memory technology, the digital video memory has been a part of our daily life. DV207 a high-tech product, just meets a plenty of needs of people and market. It possesses a series of advanced functions including digital photography, voice memory, sound trigger recording, high speed USB data transferring and USB charging.

EU Environmental Protection
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Attention

The electromagnetic fields at the specific frequencies may influence the picture of the recorder. Be sure to read the following before using the recorder and the mini camera.

Charging the Battery

The battery icon on the screen will continuous flash while low power, then please power off the unit and remove the battery for charging. For the first time using, it is better to charge the battery around 12 hours. (Make sure power off while charging battery)

Use power charger：

1.Put the battery into the power charger.

2.Insert the charger to the home power supply.

3.The red indicator of the power charger will always on during charging.

4.After full charge, the green indicator will on instead of the red indicator.

Trial recording

Before you record one-time events, you may want to make a trial recording to make sure that the recorder and the camera are working correctly.

Notes on image data compatibility

Playback of moving images recorded with your recorder on other equipment and playback of moving images recorded or edited with other equipment on your recorded are not guaranteed.

Do not shake or strike the recorder

In addition to malfunctions and inability to record moving images, this may render the SD card unusable of image data breakdown, damage or loss may occur.

LCD screen and mini camera

Be careful when placing the camera near a window or outdoors. Exposing the LCD screen or the lens of camera to direct sunlight for long period may cause malfunctions.

Back up recommendation

To avoid the potential risk of data loss always copy data to a disk.

FEATURES

- Mini design of the main unit, equip the button camera, easy to be used in kinds of situation.
- Support flash memory rewrite automatically.
- One key switch easily between regular mode and motion sensor mode of recording
- Audio and video isochronous record in real time, the video will be auto memory into AVI format, convenient to play in the computer and upload to internet.
- 2.0 inch high definition TFT LCD screen, 640*480 resolution ensure the good performance in picture display
- Support 16GB Mini-SD max
- 720 x 576 D1 PAL/720x480 D1 NTSC/640 x 480 VGA/320 x 240 QVGA optional record resolution
- Video frame: 30FPS
- USB 2.0 high speed interface
- AV input and output ready
- Interchangeable standard mobile Li-ion Battery

APPLICATION

Mountain bike video camera equipment

Snow video camera equipment

Sky video camera equipment

GETTING STARTED

Identifying the parts of the mini DVR

1.2"TFT LCD Screen
2.AV In jack to connect with the Mini camera/TV
3.USB jack to connect with PC
4.AV Out jack to connect with TV
5.Record/Playback switch
6.Play/Stop key
7.FWD/Select key
8.REV/Select key
9.Mini SD Card Slot
10.Return key
11.LED Indicators

Remark: Long press [⏭] to hold key, long press [⏮] to release key

The Parts Of The Mini CAMERA

1.Lens

2.Interchangeable buttons and screws

3. Microphone

LCD screen indicators

Welcome Picture

Recording Mode：

①Recording symbol
②Current time
③Video files
④Record time
⑤Card icon(if memory card available)
⑥Available memory
⑦Battery capacity
⑧Current time
⑨Picture quality of recording
⑩Record content (AV means audio and video included)
⑪ Circular record

Playback Mode：

①Folders icon
②Sub folders
③Year/month/date

INSTALLATION

Battery installation

Open the back cover：

Insert the battery

Insert the battery with the label side up and the connectors facing each other. Attach the battery cover and lock it

The battery of head unit is the same as **Sony Ericsson (BST-33).**

Parameters for battery using:

Capability	Charging time	Standby time	Playing time	Recording time
1000mAh	Approx ： 4 hours	Approx ： 2 hours and 19 minutes	Approx ： 4 hours	Approx one hour and 43 minutes

Precautions: For the first time usage, charge the battery at least 12 hours. Make sure the power is off when charging battery

Mini SD Card installation

Install the Mini-SD card correctly according to the illustration

The head-unit support 128Mb~16GB 的 Mini SD card

Quality Resolution	High	Medium	Low	Battery time
720x576	≤45MB	≤36MB	≤20MB	Approx. 1 hour and 40 minutes
720x480	≤43MB	≤33MB	≤18MB	Approx.1 hour and 30 minutes
640x480	≤39MB	≤27MB	≤16MB	Approx.1hour and 32 minutes
320x240	≤12.4MB	≤9.8MB	≤8.3MB	Approx. one hour and 50 minutes

Parameters above only for consult, the real parameters shall control.

BASIC OPERATIONS

Please insert the Mini Camera connector into the AV input jack of the main unit under “OFF” state.

Long press [⏻] to power on the main unit.

Start Recording

①Glide [R/P] button to [R] side，the screen will display pictures that shot by the camera。

②Long press [↻/M] button and enter the setting menu, use [▶▶|] or [|◀◀] to do the “record mode” setting, “One key record” or “motion record” ,

③Long press [↻/M] quit setting.

④Press [●/▶|] start one-key recording or motion recording, the screen will display if ●REC recording condition.

⑤Press [●/▶|] stop one-key recording or motion recording, at the same the ●REC Will disappear.

⑥Glide [R/P] button to [P] side， enter video files folders.

Precautions:

The device support low-power protection, while the 🔋 icon continuous flash, please unplug the power supply promptly after finishing charging the battery.

Video content view：

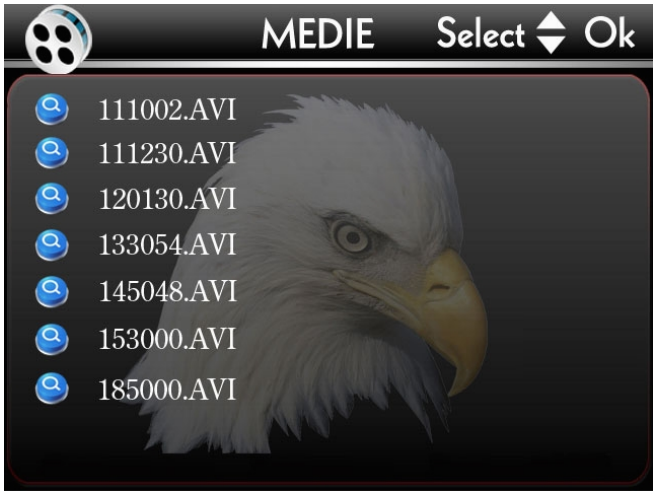
①Glide [P/R] button to [P] side.

②Use [▶▶|] or [|◀◀] choose the video storage folder.

③Use [●/▶|] confirm and enter.

Video folders

Video files



④After enter the video folders, use [▶▶|]、[|◀◀] choose the video files that you want to play, for example, play 111002.AVI ,

Use [▶▶|] or [|◀◀] choose 20090801 and press [●/▶|]to play.

⑤Press [●/▶|]second time to pause the playing.

⑥Press [↩] stop playing and exit.

⑦Continuous press [↩] back to the video folders.

Attention:The name of the video folders and video files are created by the date and time when the video recorded, systematic arrangement.

Delete the video files:

①Press [▶▶|]or [|◀◀]to choose the file you want to delete, and then long press [●/▶|], Enter the files delete interface.

②ALL: Delete all video files under folders, press[●/▶|] delete.

③Current: Delete the selected video file, press [●/▶|] delete.

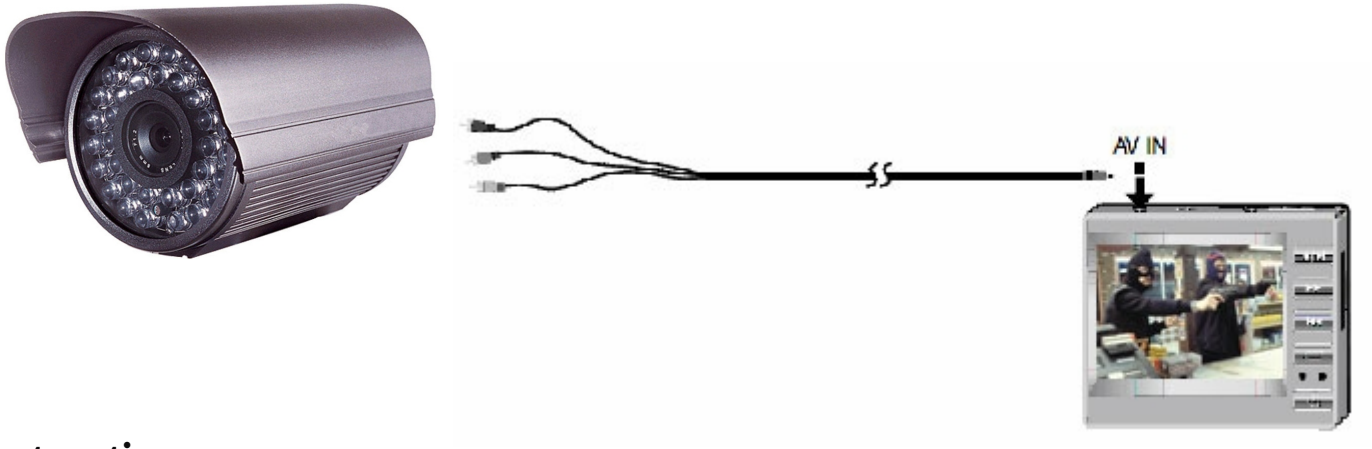
④Cancel: Cancel the operation

⑤After the operation confirmed,the system will go back to the video folders interface automatically.

Attention:

The video files can not be reverted after delete it. So please do it restrainedly. Commend to copy the video files into your computer before your delete it.

Connect with other A/V device:



Instruction:

① Glide [R/P] button to [R] side, and enter record mode.

② Insert the video cable (**2.5mm connector**)into the main unit via the AV input jack, connect the RCA connector with the camera.

Attention : yellow – video input ; Red- audio input (single track); Black– DC/5V output.

Start record:

① Press [⏻] power on the main unit;

② Long press [⮌] enter the record mode setting, change the mode to "key record ".

③ Press [⮌] go back to the record interface.

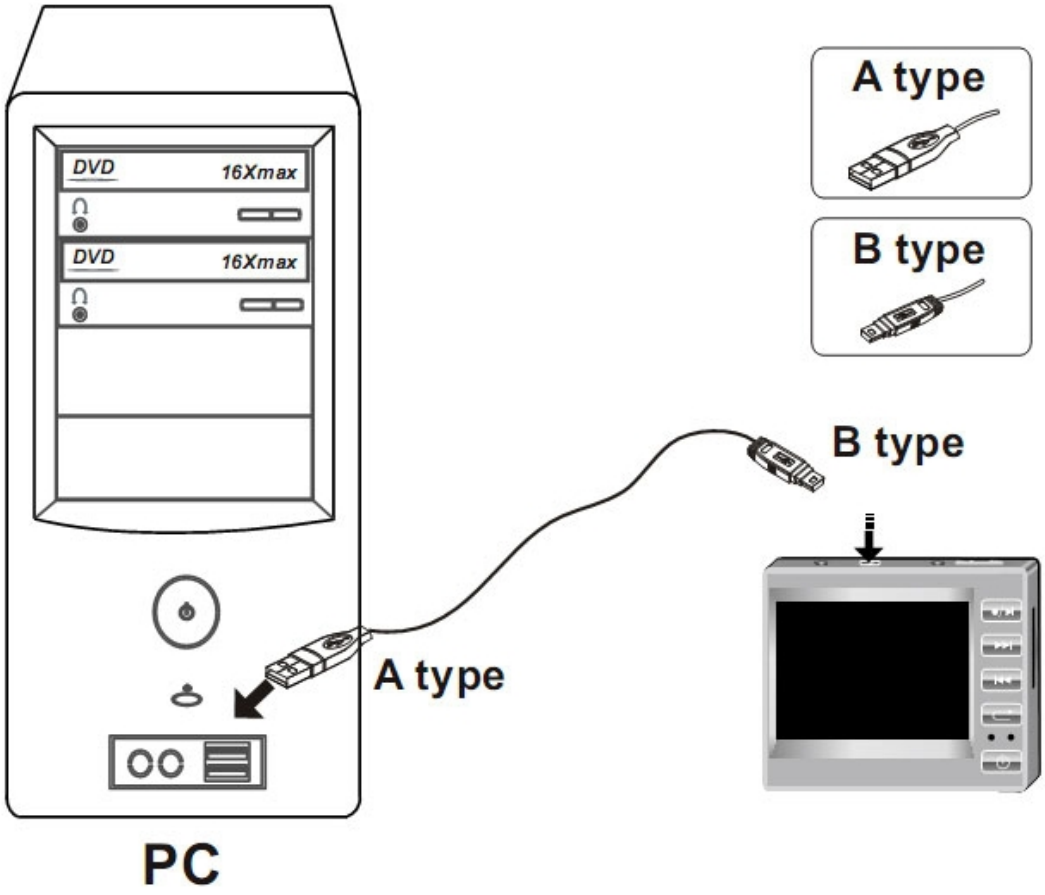
④ Press [●/⏯] start recording.

⑤ Press [●/⏯] stop recording.

Attention : This player only have one Video and one Audio, without right/left stereo input. DC:5V cable is useful when recording DVD or TV signal

Connect with PC:

① Connect the USB and MINI USB with computer and the main unit separately.



② After connect with computer, DV207 will display“ USB Connect”, recharge indicator always on.

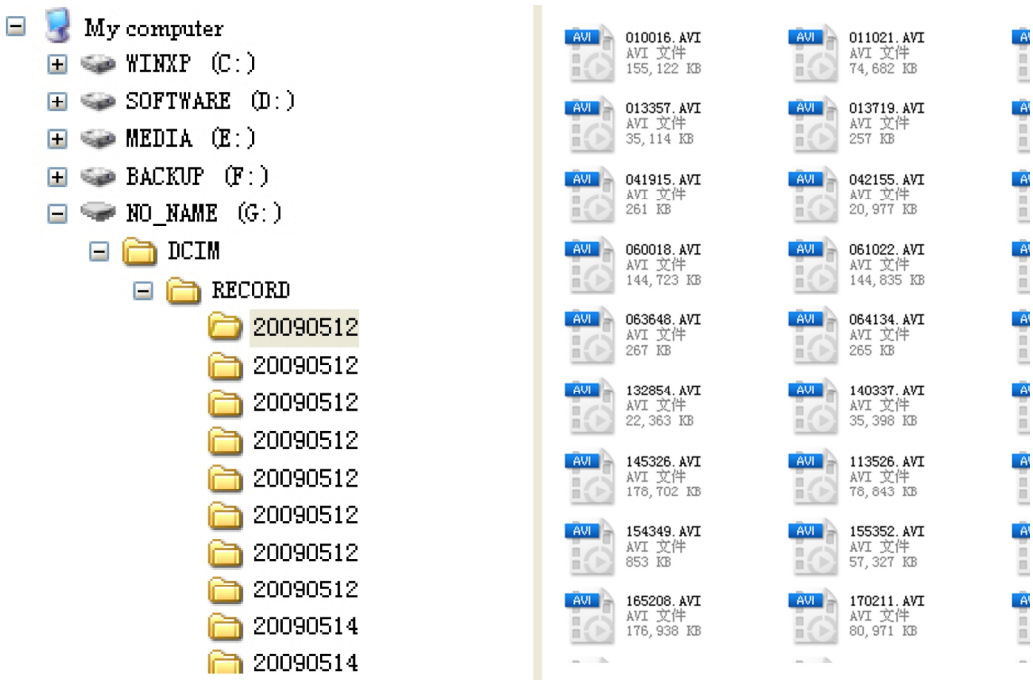
Remark:

Connect with computer at power on states, can not operate as it is External Hard Drive.

Connect with computer at power off states, can do any operation as it is recharging.

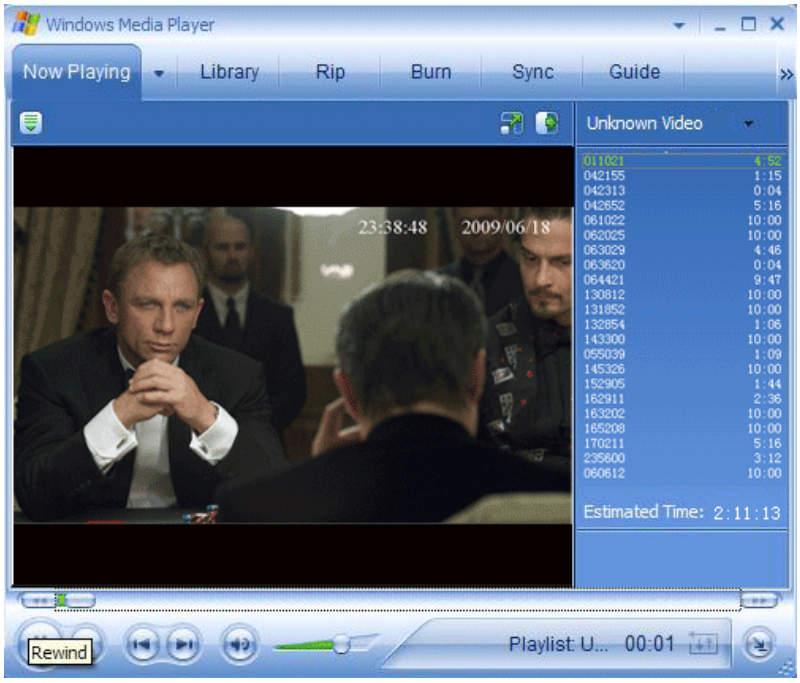
③ Open “my computer” to check if there has the removable hard disk,called “NO_NAME” .

Picture details:



④Open the video files in the folders.

⑤Check the video files in the folders, and play it by the default media player in your computer.

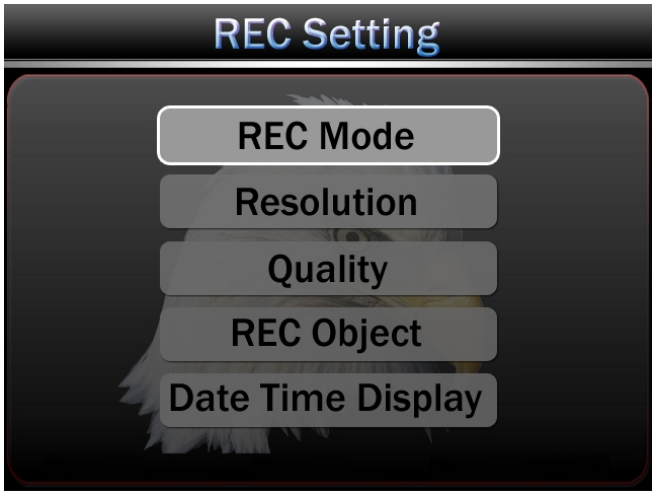


Attention:

Connect the main unit with PC under power off state， it is power charge mode， red indicator flash at the same time, files in the storage can not be read. Connect the main unit under power on state, the computer will read the files in the storage automatically and power charging at the same time.

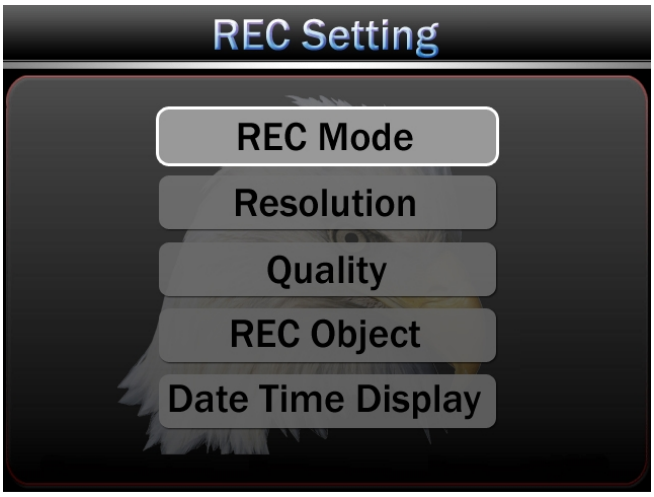
SYSTEM SETTING

Glide [P/R] button to [R] side., turn on the player by long pressing [⏻] , and then press key [↩] till “Setup” menu appear on the screen.



1.Recording mode setting:

Press[●/▶|] enter REC Setting，press [▶▶|] or [|◀◀]to select your preference setting。Press[●/▶|]enter REC Mode，press[▶▶|]or[|◀◀]choose record mode，then press to select, press [↩/M]exit setting

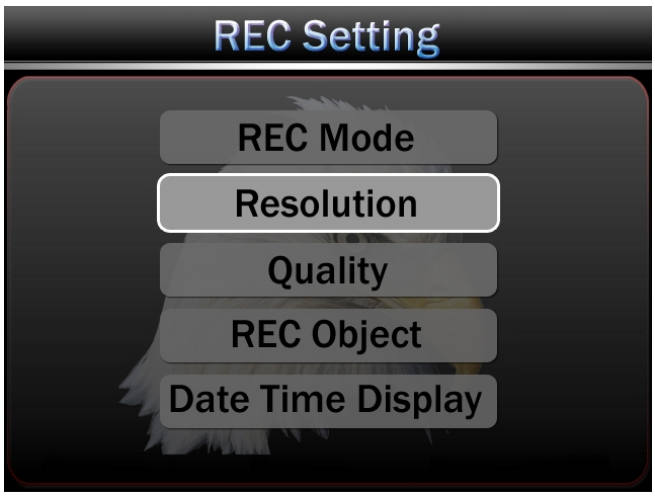


While choosing one key mode, press [●/▶|] start normal recording. While choosing Motion Detect, press [●/▶|] start motion recording, the device start recording automatically while catching any movement, device will continuous recording if there is continuous movement, if no movement, the device will turn to standby model after 15 seconds.

Important: The motion detector support record 15 Seconds pictures before motion record start. (That means it could catch some fast movement)

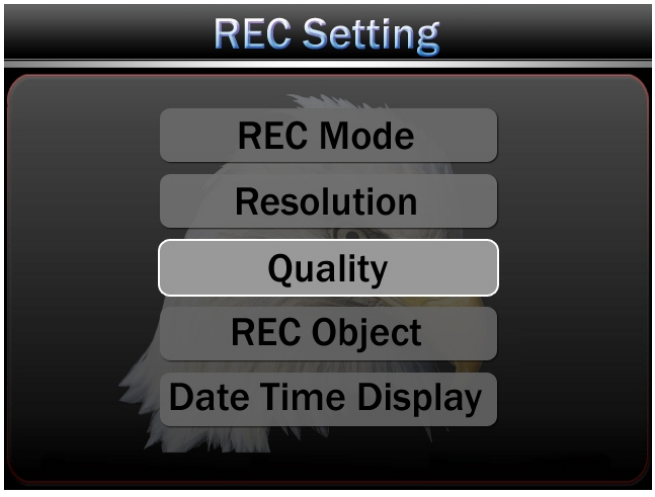
2.Resolution setting:

Press [▶▶|] or [|◀◀] to choose the resolution setting menu, press [●/▶|] confirm and enter the setting;



Press [▶▶|] or [|◀◀] to choose the resolution, press [●/▶|] to save setting Press [↩/M] exit setting.

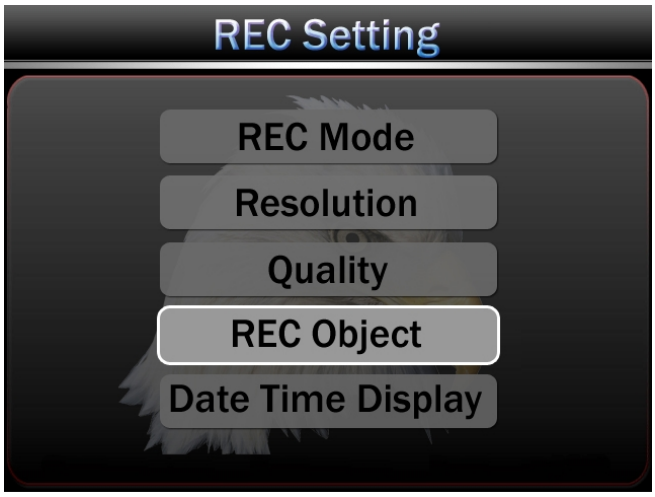
Press [▶▶|] or [|◀◀] to choose the resolution setting menu, press [●/▶|] confirm and enter the setting;



Press [▶▶|] or [|◀◀] to choose the resolution，press [●/▶|] to save setting Press exit [↩/M] setting.

3.Record content setting：

Press [▶▶|] or [|◀◀] to choose the setting menu，press [●/▶|] confirm and enter the setting。



Press [▶▶|] or [|◀◀] to choose the preference setting，press [↩/M] confirm。press [●/▶|] exit setting.

4. Video Time and date setting

Press [▶▶|] or [|◀◀] to choose the setting menu(If you prefer the video files display the time/date),press [●/▶|] to confirm and enter setting.

Press [▶▶|] or [|◀◀] to do the prefer setting， press [●/▶|] to confirm,
press [↩/M] exit setting.

5、Auto cover setting：

Press[▶▶|]or [|◀◀]to choose the setting menu(If you prefer to delete the oldest video files automatically while the memory is full for continuous record).

press [●/▶|]to enter setting.

Press [▶▶|]or [|◀◀]to do the prefer setting， press [●/▶|]confirm. Press [↩/M]quit.

Choose memory

Long press [⏎/M] ,enter setting menu, use [▶▶|] and [|◀◀] to choose the Storage, Press [●/▶|] enter.

Choose the storage device by [▶▶|] and [|◀◀] .

Press [●/▶|] confirm setting. press [⏎/M] quit menu.

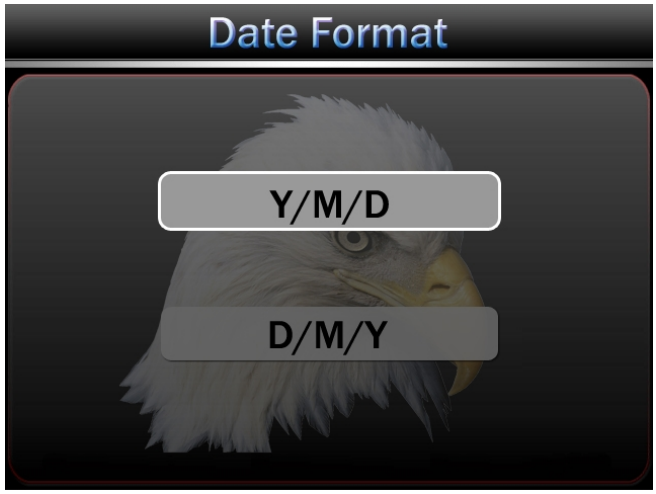
Support 16GB Mini-SD storage card in max.

Current Time and Date setting:

Long press [↻/M],enter setting menu, choose time and date by ,[▶▶|]and[|◀◀]

press [●/▶|]enter menu.

press[▶▶|]and[|◀◀]to choose Date Format, press [●/▶|]enter.



Use[▶▶|]and[|◀◀]to choose the suitable display form, press [●/▶|]confirm.
press [↻/M]quit.

Press [▶▶|] and [|◀◀] choose Date Setting, press [●/▶|] do setting

Press [●/▶|] choose setting content, press [▶▶|] and [|◀◀] amend, quiit by [↩/M]

Press [▶▶|] and [|◀◀] choose Time Setting, press [●/▶|] enter setting

Press [●/▶|] choose setting content ,use [|◀◀ and [▶▶| amend,
press [↩/M] store the setting and quit.
Long press [↩/M] quit the setting menu..

Language setting：

Long press [⏎/M] enter setting menu, use [▶▶|] and [|◀◀] choose Language,

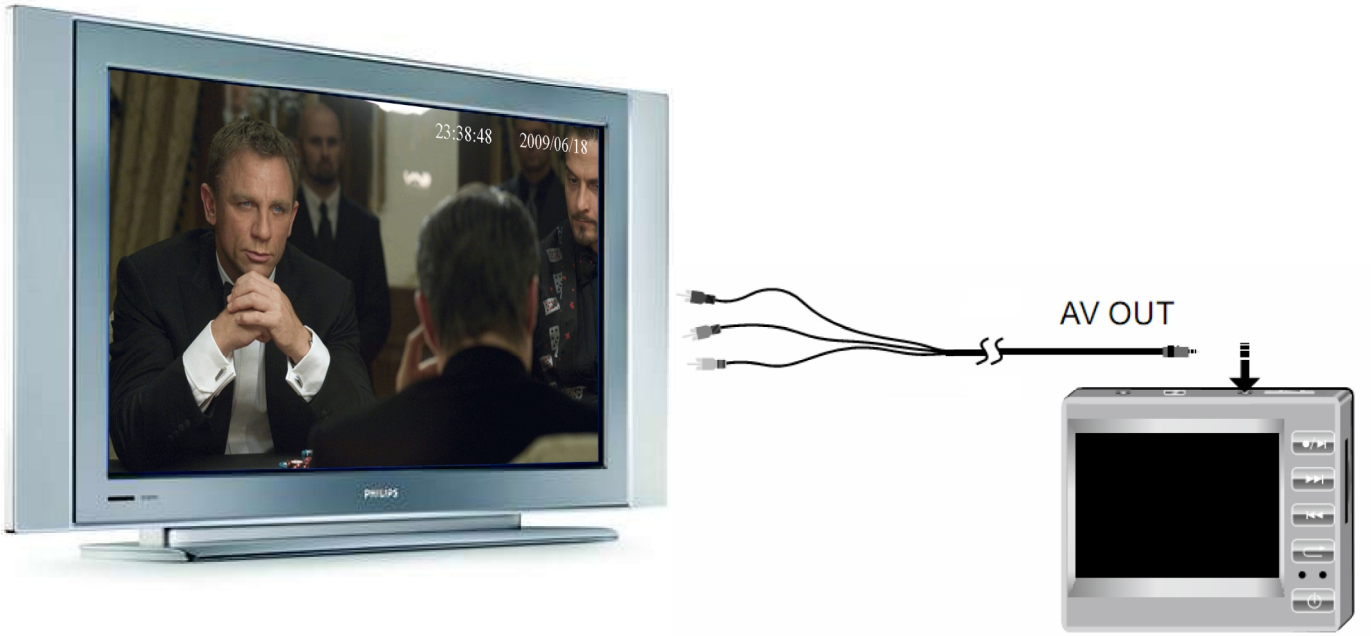
Press [●/▶|] confirm and enter menu

Use [▶▶|] and [|◀◀] choose the suitable language,press [●/▶|] confirm.

Press [⏎/M] quit.

Long press [⏎/M] quit setting menu.

Video output setting:



Please connect the AV cable of the head-unit with the TV correctly, like illustration:
Yellow: Video Output
Red: Audio R Output
White: Audio L Output
While insert the video cable into the head-unit, the LCD of the head-unit will off, and the external monitor will display the picture of the head-unit, Glide the [R/P] switch at [P] place, and then the monitor will display all video file folders in the head-unit storage, illustration below:

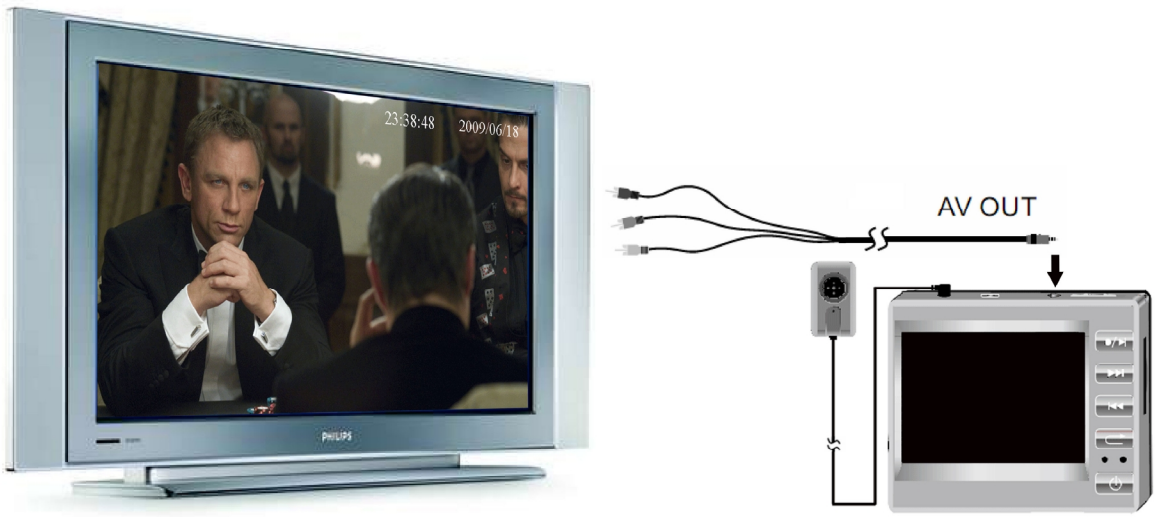
Please consult page 11. about how to play a video.
The default system of video output is NTSC, if your monitor only support PAL system,

Please long press [↻/M] enter setting menu refer the video system.

By [▶▶|] and [|◀◀] choosing PAL system, press [●/▶|] confirm;
press [↻/M] quit.

While insert the video cable into the head-unit, and [R/P] switch at [R] place, the external monitor will display the picture that the camera catching.

Illustration:



Power saving mode:

Long press [⏎/M] enter setting menu.

Press [▶▶|] and [|◀◀] choosing Power Save. press [●/▶|] enter.

Press [▶▶|] and [|◀◀] choose Power Off. Press [●/▶|] enter the setting of “power off”..

Press [●/▶|] confirm. [⏎/M] Quit.

Automatic LCD off:

Long press [⏎/M] enter setting menu.

By [▶▶|] and [|◀◀] choose Power Save. Enter by [●/▶|] .

Use [▶▶|] and [|◀◀] choose LCD Off. Press [●/▶|] enter setting.

Press [▶▶|] and [|◀◀] choose prefer setting. [●/▶|] confirm. [⏎/M] Quit.

Format memory:

Long press [↻/M] enter setting, [▶▶|] and [|◀◀] choose Format. [●/▶|] enter.

Press [▶▶|] and [|◀◀] choose Yes or No. [●/▶|] confirm. [↻/M] quite.

There without any notice before format process, so please take attention before your operate.

If you choose "yes" to do the format, the system will format the current memory that store the video files. (If you choose the SD card as your video storage, the system will format the SD card, if you choose the built in memory as your video storage, the system will format the device memory)

Warning: The data in the memory won't be recovered after format it, so please do prudently. High commendation to backup the video files in your PC before format it.

Software update:

Copy the update software into the Mini-SD card, and insert into the head-unit.

Long press [C/M] enter setting menu.

Use [▶▶|] and [|◀◀] to choose update menu.

Press [●/▶|] will update software automatically.

Attention:

Please stop any operation during software updating, it will continue 3 minutes, the head-unit will power off automatically after successful update.

Revert the default setting:

Long press [↻/M] enter setting menu

Press [▶▶|] and [|◀◀] choose default

Press [●/▶|] enter setting menu.

Press [▶▶|] and [|◀◀] choose the setting.

Yes: Go back to the factory setting.

No: Quit without any change.

Press [↻/M] quit.

Memory information

Long press [↻/M] enter setting, illustration below:

Press [●/▶|] to check the storage information:

Check system version:

Long press [↻/M] enter setting, .choose the version menu by [▶▶|] and [|◀◀] [●/▶|] Quit.

DV207.21th Aug, 2009, first version..

PARAMETERS

DV207	
LCD	2inch TFT LCD 640*240
Video system	PAL/NTSC
Video resolution	D1 720*576@25 fps D1 720*480@30 fps
Frame rate	VGA 640*480@30fps QVGA 320*240@30fps
Video format	AVI (MPEG-4)
Audio format	MP3
Built-in flash memory	128MB~2G(optional)
Memory compatibility	Mini SD Card
USB Jack	High-speed USB 2.0
AV In Jack	3 rings with 2.5mm
AV Output Jack	3 rings with 2.5mm
Language	Chinese/English
Operation Temperature	-10ºC-50ºC
Operation Humidity	15-85%RH
Power supply	DC 5V 1000ma
Battery	Li-ion battery 1000mAh
OS supported	2000/XP/Vista 32
Dimensions	66mm x 55mm x 17mm

CM322	
Imaging sensor type	1/3”Color CMOS
TV System	PAL/NTSC(optional)
Horizontal definition	420 TV Lines
Minimum Illumination	1 LUX
Dimensions	33 x 22 x 10 mm
Power supply	DC 5V 150MA

ACCESSORIES

DVR

Camera

Buttons&Screws

AV output cable

AV in/5V out cable

USB cable

Li-ion Battery

AC charger

User manual

Mini SD card
(optional)

Vehicle power charger
(optional)

We will not inform you if there is any modification for user maual in future .